

Scaled data based on original data using
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge or
Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO

Report Number: E428392

Luminaire Tested: **M700-630-1771P**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: E428392
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: M700-630-1771P
Description: HALO RECESSED HID - LITE COMMERCIAL, GLASS DROP OPAL LENS
Light Source: LU70D, 5400 LUMENS
Ballast/Driver: -

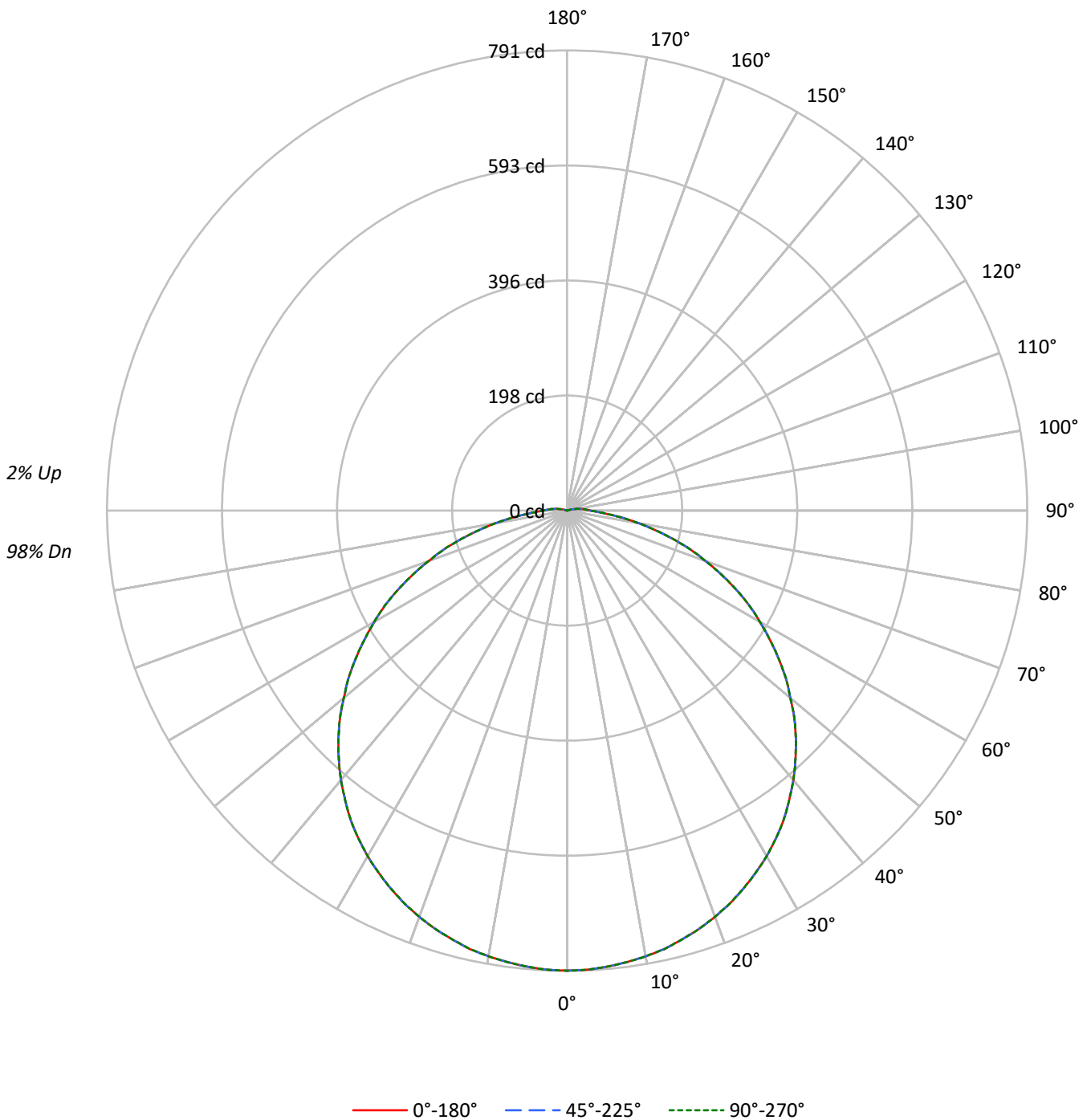
Summary

Lumens per Lamp: 5400 (1 lamp)
Luminaire Lumens: 2488.5 lumens
Efficiency: 46.1%
Efficacy: 28.3 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.41
Luminous Opening: (L: 0 ' x W: -0.58 ' x H: 0.05 '
CIE Type: Direct

Input Watts (W): 88
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

TEST NUMBER: E428392
CATALOG NUMBER: M700-630-1771P

Luminous Intensity Polar Plot





TEST NUMBER: E428392

CATALOG NUMBER: M700-630-1771P

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	55	55	55	55	53	53	53	53	51	51	51		49	49	49		46	46	46	45
1	50	47	45	43	48	46	44	42	44	42	41		42	41	39		40	39	38	37
2	45	41	38	35	44	40	37	34	38	36	33		37	34	32		35	33	32	31
3	41	36	32	29	40	35	31	28	33	30	28		32	29	27		31	29	27	26
4	37	32	27	24	36	31	27	24	30	26	24		28	25	23		27	25	23	22
5	34	28	24	21	33	28	24	21	26	23	20		25	22	20		25	22	20	19
6	32	25	21	18	31	25	21	18	24	20	18		23	20	17		22	19	17	16
7	29	23	19	16	28	22	19	16	22	18	16		21	18	15		20	17	15	14
8	27	21	17	14	26	20	17	14	20	16	14		19	16	14		19	16	14	13
9	25	19	15	13	25	19	15	13	18	15	12		18	15	12		17	14	12	11
10	24	18	14	11	23	17	14	11	17	14	11		16	13	11		16	13	11	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminous shape not found,		
5°	reference photometric report, or contact		
10°	the photometric lab for calculations.		
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



TEST NUMBER: E428392

CATALOG NUMBER: M700-630-1771P

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	74.8	3.0	1.4
10°-20°	215.6	8.7	4.0
20°-30°	330.7	13.3	6.1
30°-40°	405.7	16.3	7.5
40°-50°	428.7	17.2	7.9
50°-60°	396.6	15.9	7.3
60°-70°	316.3	12.7	5.9
70°-80°	198.9	8.0	3.7
80°-90°	82.1	3.3	1.5
90°-100°	30.7	1.2	0.6
100°-110°	10.1	0.4	0.2
110°-120°	1.2	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	621.1	25.0	11.5
0°-40°	1026.8	41.3	19.0
0°-60°	1852.2	74.4	34.3
0°-90°	2449.5	98.4	45.4
90°-120°	42.0	1.7	0.8
90°-150°	42.0	1.7	0.8
90°-180°	42.0	1.7	0.8
0°-180°	2488.5	100.0	46.1

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	791	791	791	791	791	
5°	787	787	787	787	787	75
15°	763	763	763	763	763	216
25°	717	717	717	717	717	331
35°	649	649	649	649	649	406
45°	556	556	556	556	556	429
55°	444	444	444	444	444	397
65°	320	320	320	320	320	316
75°	188	188	188	188	188	199
85°	70	70	70	70	70	69
90°	40	40	40	40	40	23
95°	28	28	28	28	28	21
105°	5	5	5	5	5	10
115°	0	0	0	0	0	1
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: E428392

CATALOG NUMBER: M700-630-1771P

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	791	791	791	791	791	791	791	791	791
2.5°	790	790	790	790	790	790	790	790	790
5°	787	787	787	787	787	787	787	787	787
7.5°	783	783	783	783	783	783	783	783	783
10°	778	778	778	778	778	778	778	778	778
12.5°	772	772	772	772	772	772	772	772	772
15°	763	763	763	763	763	763	763	763	763
17.5°	754	754	754	754	754	754	754	754	754
20°	743	743	743	743	743	743	743	743	743
22.5°	731	731	731	731	731	731	731	731	731
25°	717	717	717	717	717	717	717	717	717
27.5°	702	702	702	702	702	702	702	702	702
30°	686	686	686	686	686	686	686	686	686
32.5°	668	668	668	668	668	668	668	668	668
35°	649	649	649	649	649	649	649	649	649
37.5°	627	627	627	627	627	627	627	627	627
40°	605	605	605	605	605	605	605	605	605
42.5°	581	581	581	581	581	581	581	581	581
45°	556	556	556	556	556	556	556	556	556
47.5°	530	530	530	530	530	530	530	530	530
50°	501	501	501	501	501	501	501	501	501
52.5°	474	474	474	474	474	474	474	474	474
55°	444	444	444	444	444	444	444	444	444
57.5°	413	413	413	413	413	413	413	413	413
60°	383	383	383	383	383	383	383	383	383
62.5°	353	353	353	353	353	353	353	353	353
65°	320	320	320	320	320	320	320	320	320
67.5°	287	287	287	287	287	287	287	287	287
70°	253	253	253	253	253	253	253	253	253
72.5°	222	222	222	222	222	222	222	222	222
75°	188	188	188	188	188	188	188	188	188
77.5°	155	155	155	155	155	155	155	155	155
80°	125	125	125	125	125	125	125	125	125
82.5°	96	96	96	96	96	96	96	96	96
85°	70	70	70	70	70	70	70	70	70
87.5°	53	53	53	53	53	53	53	53	53
90°	40	40	40	40	40	40	40	40	40
95°	28	28	28	28	28	28	28	28	28
105°	5	5	5	5	5	5	5	5	5
115°	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0



TEST NUMBER: E428392

CATALOG NUMBER: M700-630-1771P

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
175°	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0

(END OF REPORT)